



HCRS-4P

Disassemble, service and reassemble any cylinder in one stop.

The HCRS-4P Hydraulic Cylinder Repair Stand is the complete, all-in-one solution for servicing standard and multi-stage hydraulic cylinders, large and small. It includes the mighty new NTS-50 Torquing Device as a standard feature, making it easy to remove and reinstall the toughest piston assembly. The NTS-50 turns nuts with up to 50,000 lb-ft (67800 N-m) of high-torque power, and up to 3,000 lb-ft (4070 N-m) of high-speed (30 RPM) force.



Numerous Options

The HCRS-4P can accommodate practically any cylinder design and size, thanks to the NTS-50's universal tool mount and wide range of optional equipment.

The hex plates will accept most piston nuts. They're available as a complete set, or individually in sizes ranging from 3 inches (76 mm) to 6 1/8 inches (155 mm). An optional adjustable hex tool accommodates a range of piston nuts from 3 inches (76 mm) to 9 inches (228 mm). Optional square drive adapters are available in 3/4 inch, 1 inch, 1 1/2 inch, and 2 1/2 inch sizes.

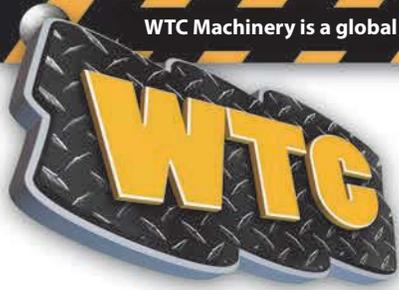
Mobile Hydraulic Cart

The HCRS-4P includes a mobile hydraulic cart that allows the operator to control the system while moving along the cylinder, protected behind a Plexiglas shield. It can be used to operate an assortment of hydraulic components, including additional hydraulic cylinder repair stands.

The HCRS-4P also offers the ability to fully test the cylinder after rebuilding, making this an efficient, profitable and complete cylinder service system. An optional stand-alone cylinder hone bench is available, to extend your shop's rebuilding capability.



WTC Machinery is a global leader in designing and building machinery and tooling for heavy equipment repair facilities.



WTC MACHINERY
Engineered to perform. Built to last.

HCRS-4P

Specifications:

Max. Torque (Stroking):	50,000 lb-ft (67790 N-m)
Max. Torque (Nut-Runner):	3,000 lb-ft (4060 N-m)
Piston Extraction / Insertion Force:	37,700 lbs (17140 kg-f)
Max. Cylinder Weight:	12,000 lbs (5450 kg)
Max. Cylinder Diameter:	26 in (0.66 m)
Max. Cylinder Length (extended):	120 in (3.04 m)
Max. Rod Eye Width:	15 in (0.34 m)
Max. Piston Nut Width (Across Flats):	9 in (0.23 m)

Electrical

Power Requirements:	5 Hp (3.8 kW)
Standard Voltages:	Three Phase
	208V / 60 Hz
	220V / 50 Hz
	230V / 60 Hz
	380V / 50 Hz
	415V / 50 Hz
	460V / 60 H

SECTION 2 - HCRS-4P Hydraulic Cylinder Repair Stand Specifications

DIMENSIONS

Weight8000 lbs (3640 kg) **Length**..... 314 inches (7,98 m)
Width 40 inches (1,02 m) **Height** 64 inches (1,63 m)

HYDRAULIC

Maximum Pressure 3,100 PSI (214 bar)
Maximum Flow (60 Hz).... 14.0 gpm (52,9 lpm)
(50 Hz).... 11.7 gpm (44,1 lpm)
Reservoir Capacity 100 gallons (380 liters)

ELECTRICAL

5 Hp (3,7 kW) 3 Phase Electric

Standard Voltages:

<u>50 Hz (1500 rpm)</u>	<u>60 Hz (1800 rpm)</u>
220 V / 18.6 A	208 V / 16.8 A
380 V / 9.6 A	230 V / 16.4 A
415 V / 9.8 A	460 V / 8.3 A
	575 V / 5.8 A

Other voltages available upon request

TORQUING CAPACITIES

HSCR-4P Components

NTS-50 Torquing Device 50,000 lb-ft (69,250 N-m)
NTS-70 Torquing Device 70,000 lb-ft (96,950 N-m)
High-Speed Nut Runner 3,000 lb-ft (4,150 N-m)
Spanner Assembly 10,000 lb-ft (13,850 N-m)
Adjustable Wrench Assembly 50,000 lb-ft (69,250 N-m)
Hex Plate Assembly70,000 lb-ft (96,950 N-m)

Sockets, Extensions and Adapters

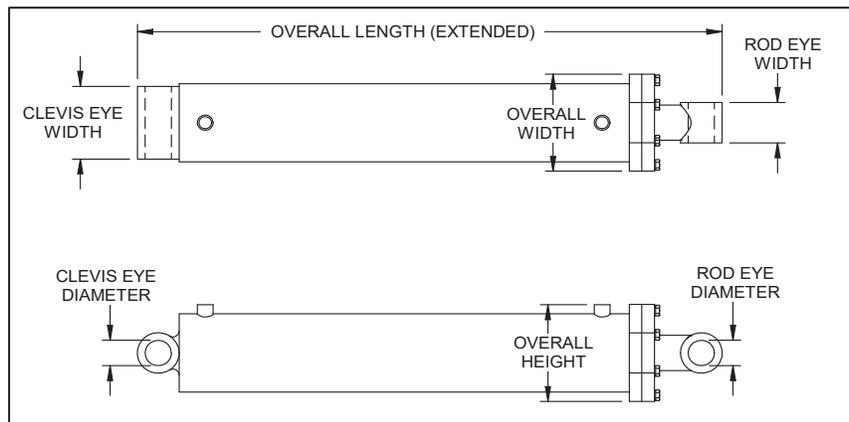
(Follow manufacturer's specifications)

General Specifications -

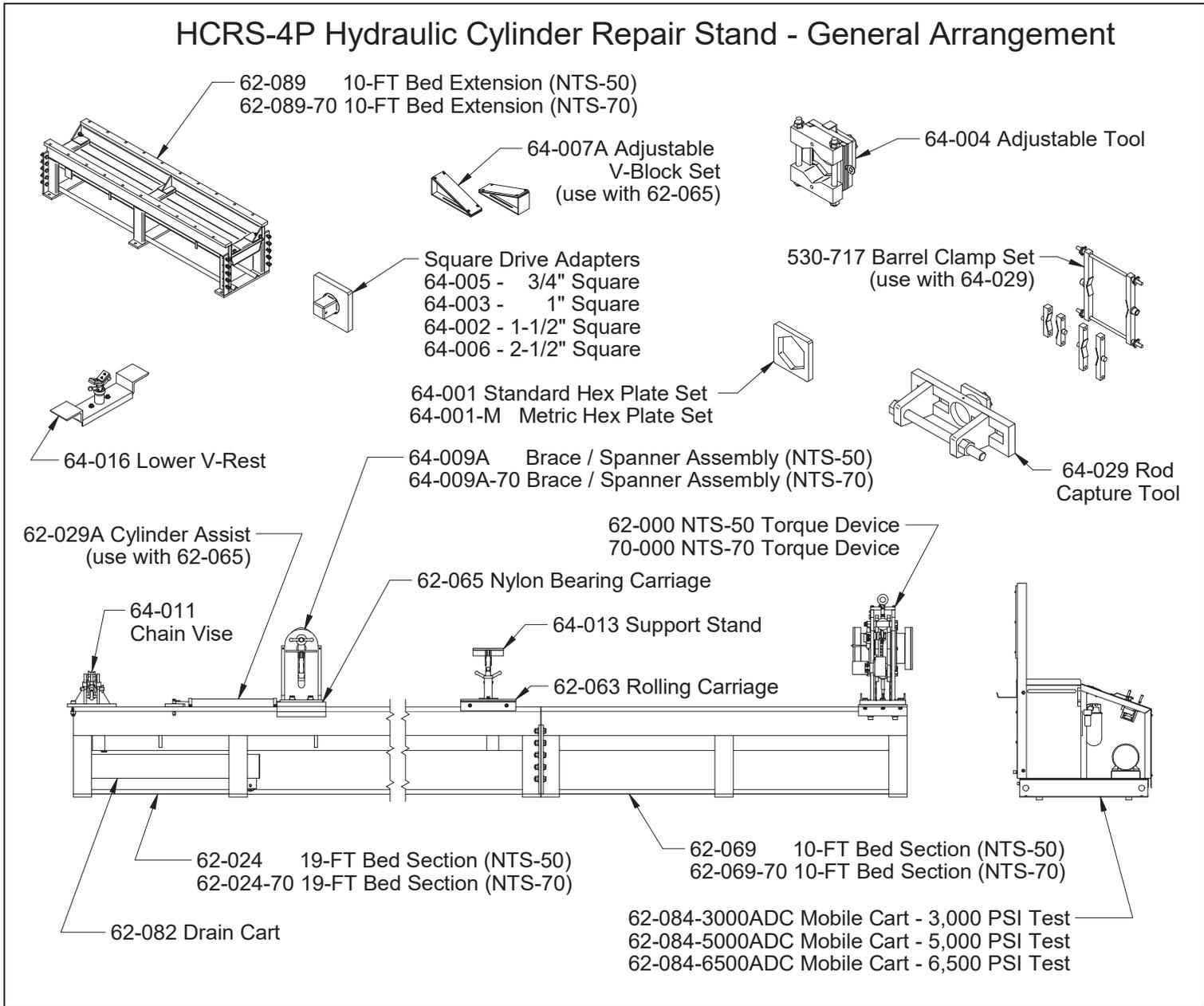
¾" Drive ... 300 lb-ft (415 N-m)
1" Drive ... 750 lb-ft (1,040 N-m)
1½" Drive... 2,000 lb-ft (2,770 N-m)
2½" Drive..10,000 lb-ft (13,850 N-m)

CAPACITY - MAXIMUM / MINIMUM CYLINDER SPECIFICATIONS

Weight< 12,000 lbs (5450 kg)	Overall Length < 312 inches (7,92 m)
Overall Width < 26 inches (0,66 m)	Overall Height < 26 inches (0,66 m)
Clevis Width < 15 inches (0.38 m)	Clevis Inside Dia > 1 inch (25 mm)
Rod Eye Width< 15 inches (0.38 m)	Rod Eye Inside Dia> 1 inch (25 mm)



HCRS-4P Hydraulic Cylinder Repair Stand - General Arrangement



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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CONTACT WTC MACHINERY FOR MORE INFORMATION:

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262-567-3993 (Intl.)

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Email: Sales@WTCMachinery.com

OPTIONAL TOOLING



64-029 ROD CAPTURE TOOL



530-717 BARREL CLAMP ASSEMBLY



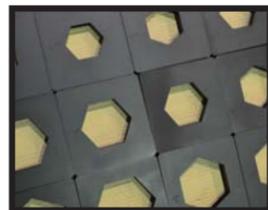
64-004 3" - 9" ADJUSTABLE TOOL



64-007A ADJUSTABLE V-BLOCK SET ASSEMBLY
62-063 ROLLING CARRIAGE



B4060 Large Hex Plate Holder
(Use with Hex Plates ranging from 151mm to 295mm - sold seperately)



64-001 HEX PLATE SET - 14 PLATES 3" - 6 1/8"
64-001-M METRIC HEX PLATE SET -
12 PLATES 60 MM TO 150 MM



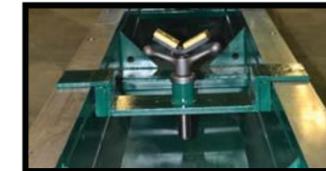
SQUARE DRIVE ADAPTERS
64-005 3/4" (19,05 mm) SQUARE DRIVE
64-003 1" (25,40 mm) SQUARE DRIVE
64-002 1 1/2" (38,1 mm) SQUARE DRIVE
64-006 2 1/2" (63,5 mm) SQUARE DRIVE



62-000 NTS-50 - NUT CRACKER
70-000 NTS-70 - NUT CRACKER



64-013 SUPPORT STAND
62-063 ROLLING CARRIAGE



64-016 LOWER V-REST



62-029A CYLINDER ASSIST ASSEMBLY, NO TUBE



MOBILE HYDRAULIC CART
62-084-3,000ADC - 3,000 PSI TESTING
62-084-5,000ADC - 5,000 PSI TESTING
62-084-6,500ADC - 6,500 PSI TESTING



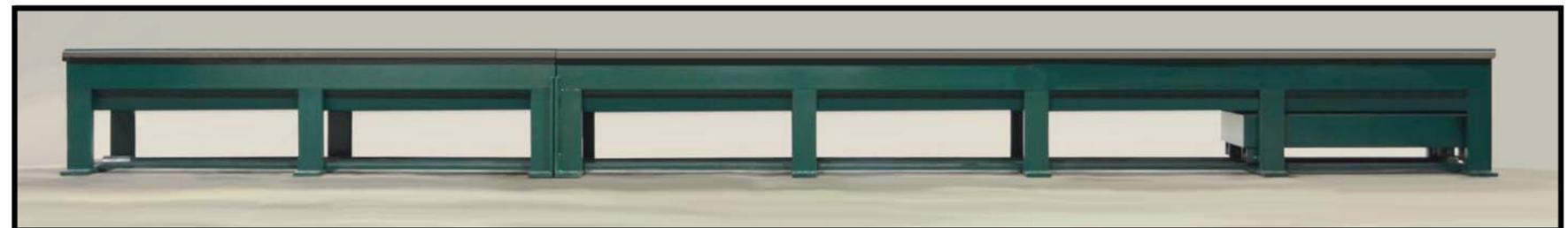
DATA COLLECTION FOR
MOBILE HYDRAULIC CART
62-6500-DC FOR 6,500 CART
09-0248 FOR 3,000 & 5,000 CART



64-009A-70 BRACE STAND & SPANNER NUT ASSEMBLY
62-065 BEARING SLIDE CARRIAGE



64-011 LARGE CHAIN VISE



62-069 10 FOOT HEAVY DUTY BED EXTENSION

62-024 19 FOOT HEAVY DUTY CYLINDER BENCH

62-082 OIL DRAIN PAN



W1222 LINDEN ROAD, IXONIA, WISCONSIN 53036 USA

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MANUFACTURERS/BENEFICIARY'S WARRANTY CERTIFICATE WTC MACHINERY, LLC WARRANTY

WTC MACHINERY, LLC warrants its products to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months after date of shipment. WTC MACHINERY, LLC undertakes to be responsible for any defect that may arise due to faulty raw materials, design, workmanship and defective parts and to replace them without extra cost. Freight charges are the customer's responsibility. Our warranty is not transferable.

WTC MACHINERY, LLC shall have the option of requiring the return of all parts claimed defective. Parts proved to be defective, due to defect in workmanship and/or material, shall be either repaired or replaced free of charge, F.O.B. our designated factory. All parts warranty claims are subject to inspection by WTC MACHINERY, LLC and acceptance at the factory

Our warranty does not obligate us to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts and the removal and/or remounting of the parts repaired or replaced under this warranty, unless specifically authorized in writing by WTC MACHINERY, LLC. All parts returned to the factory must be shipped freight prepaid; no collect freight will be accepted by the factory. Forms authorizing such returns for inspection must accompany all returns.

This warranty shall not apply to products not manufactured by WTC MACHINERY, LLC.

Outside purchased equipment and accessories (not of WTC manufacture) are warranted only to the extent of the original equipment manufacturer's warranty and subject to their allowance to WTC MACHINERY, LLC. In this respect, our warranty obligations must conform and be limited to the warranty extended to WTC MACHINERY, LLC by its suppliers as extended to the customer.

We shall, in no event, be liable for consequential damages or contingent liability arising out of the failure of any unit or part to operate properly, or that is subject to:

- Ordinary operating wear, abuse, misuse, or overloading;
- Repairs or alterations by parties other than WTC MACHINERY, LLC;
- The use of improper fluids, contaminated fluids or improper filtering;
- The use of improper voltage hookup in the electrical connections of any equipment;
- Negligence, accident or damages due to deterioration during periods of storage by the purchaser prior to installation and operation;
- Damages occurred in shipment after leaving factory en route to customers' delivery point, as title to equipment passes to customer when loaded onboard for shipment, f.o.b. factory, and customer must place his own claim against damaged goods directly to the shipping company and not against WTC MACHINERY, LLC, its factory, or any of its personnel.
- Damages due to circumstances beyond the control of WTC MACHINERY, LLC and in connection with fulfilling any obligation under this warranty.

To the maximum extent permitted by applicable law, in no event shall WTC Machinery, LLC be liable for indirect, special, incidental or consequential damages resulting from personal injury, loss of business profits or business interruption from the use of its products, or from the inability to use its products.

This warranty is exclusive and is in lieu of all other expressed and implied warranties, including but not limited to implied warranties or merchantability and fitness for a particular purpose. WTC MACHINERY, LLC shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured or supplied by WTC MACHINERY, LLC, or services rendered to it.